

WHAT IS CLAIMED IS:

1. A photosensitive printing plate supplying apparatus comprising:

printing plate packaging means which accommodates a bundle of photosensitive printing plates and which has an opening/closing lid which can open and close a supply opening through which the photosensitive printing plates are taken out;

a printing plate accommodating portion which can be opened/closed, and to which said printing plate packaging means is removably attached when the accommodation portion is in an opened state, the supply opening being closed by the opening/closing lid of said printing plate packaging means when said printing plate packaging means is attached to said printing plate accommodating portion, and which is completely shield from light when the accommodation portion is in a closed state;

taking-out/conveying means which takes out the photosensitive printing plates one by one from the interior of said printing plate packaging means whose supply opening is opened in said printing plate accommodating portion in the closed state, and conveys the photosensitive printing plate to a predetermined position; and

lid opening/closing means which, when the taking-out operation by said taking-out/conveying means is started, moves the opening/closing lid of said printing plate packaging means to an

opening position in which the supply opening is opened, and after the taking-out operation by said taking-out/conveying means is completed, said lid opening/closing means returns the opening/closing lid of said printing plate packaging means to a closing position in which the supply opening is closed.

2. A photosensitive printing plate supplying apparatus according to claim 1, wherein said printing plate packaging means includes a box main body, which is formed in a box shape such that the bundle of photosensitive printing plates can be accommodated therein and which is provided with the supply opening through which the photosensitive printing plates are taken out, and an opening/closing lid which can be removably attached to said box for opening/closing the supply opening.

3. A photosensitive printing plate supplying apparatus according to claim 1, wherein said printing plate packaging means includes a box main body, which is formed in a box shape such that the bundle of photosensitive printing plates can be accommodated therein and which is provided with the supply opening through which the photosensitive printing plates are taken out, and an opening/closing lid which can be swingably attached to said box for opening/closing the supply opening.

4. A photosensitive printing plate supplying apparatus according to claim 1, wherein said printing plate packaging means includes a box main body, which is formed in a box shape such that the bundle of photosensitive printing plates can be accommodated therein and which is provided with the supply opening through which the photosensitive printing plates are taken out, and an opening/closing lid which can be slidably attached to said box for opening/closing the supply opening.

5. A photosensitive printing plate supplying apparatus according to claim 1, wherein said lid opening/closing means includes a lid sucking portion, and the lid sucking portion sucks and opens/closes said opening/closing lid of said printing plate packaging means.

6. A photosensitive printing plate supplying apparatus according to claim 5, wherein said lid sucking portion includes a suction cup and a suction tube which extends from a suction port of a suction pump and is connected to the suction cup, and the suction cup sucks the photosensitive printing plate at a negative pressure which is generated by the suction pump and transmitted via the suction.

7. A photosensitive printing plate supplying apparatus according to claim 6, wherein said lid opening/closing means

includes pressure adjusting means which adjusts pressure at the suction cup such that a predetermined value or less of the pressing force is applied to said printing plate packaging means by the suction cup.

8. A printing plate packaging box comprising:

a box main body which accommodates a bundle of photosensitive printing plates and which is provided with the supply opening through which the photosensitive printing plates are taken out; and

an opening/closing lid which can be removably attached to said box for opening/closing the supply opening.

9. A printing plate packaging box comprising:

a box main body which accommodates a bundle of photosensitive printing plates and which is provided with the supply opening through which the photosensitive printing plates are taken out; and

an opening/closing lid which can be swingably attached to said box for opening/closing the supply opening.

10. A printing plate packaging box comprising:

a box main body which accommodates a bundle of photosensitive printing plates and which is provided with the supply

opening through which the photosensitive printing plates are taken out; and

an opening/closing lid which can be slidably attached to said box for opening/closing the supply opening.

11. A printing plate packaging box according to claim 8, wherein a sheet-type material of which surface is smooth and air tight is adhered onto the outer surface of said opening/closing lid of said printing plate packaging means.

12. A printing plate packaging box according to claim 9, wherein a sheet-type material of which surface is smooth and air tight is adhered onto the outer surface of said opening/closing lid of said printing plate packaging means.

13. A printing plate packaging box according to claim 10, wherein a sheet-type material of which surface is smooth and air tight is adhered onto the outer surface of said opening/closing lid of said printing plate packaging means.

14. A photosensitive printing plate supplying apparatus comprising:

packaging means which accommodates a bundle of photosensitive printing plates and completely shields said photosensitive printing plates therein from light;

an accommodating portion which can be opened/closed, and to which said bundle of photosensitive printing plates packaged in said packaging means is removably attached when the accommodation portion is opened;

a jutting-out portion which is provided at said packaging means, a part of which juts-out of said accommodation portion when said accommodation portion is closed, and which causes exposure of at least a part of said photosensitive printing plates packaged in said packaging means when a pulling-out force of a predetermined value or more is applied to said jutting-out portion; and

taking-out/conveying means which, when at least a part of said photosensitive printing plates is exposed in said accommodation portion in its opened state, takes out the photosensitive printing plates therefrom and conveys the photosensitive printing plate to a predetermined position.

15. A printing plate packaging means for packaging photosensitive printing plates comprising:

a packaging means main body; and

a jutting-out portion which is provided at said packaging means main body, a part of which juts-out of said printing plate accommodation portion when said accommodation portion is closed, and which causes exposure of at least a part of said photosensitive printing plates packaged in said packaging means when a pulling-out

force of a predetermined value or more is applied to said jutting-out portion.

16. A printing plate packaging means according to claim 15, wherein said packaging means main body is provided with at least one separating portion which separates said packaging means main body into two or more portions by a pulling-out force applied from said jutting-out portion.

17. A printing plate packaging means according to claim 16, wherein said separating portions are provided in a shape of two straight lines which cross substantially at a right angle.

18. A printing plate packaging means according to claim 15, wherein said packaging means main body is formed by a plurality of packaging member which have been separated in advance, and said jutting-out portion is provided at at least one of said packaging members.

19. A printing plate packaging means according to claim 16, wherein light-shielding means which shields the interior of said packaging means main body from the exterior is provided at said separating portions.

20. A printing plate packaging means according to claim 17, wherein light-shielding means which shields the interior of said packaging means main body from the exterior is provided at said separating portions.

21. A printing plate packaging means according to claim 19, wherein fixing means, which fixes the packaging members to each other, is removably attached to said packaging means main body formed by the plurality of packaging members.

22. A printing plate packaging means according to claim 20, wherein fixing means, which fixes the packaging members to each other, is removably attached to said packaging means main body formed by the plurality of packaging members.

23. A printing plate packaging means according to claim 18, wherein fixing means, which fixes the packaging members to each other, is removably attached to said packaging means main body formed by the plurality of packaging members.

24. A printing plate packaging means according to claim 15, wherein holding means is provided at said jutting-out portion.



25. A printing plate packaging means according to claim 15, wherein seal means which seals said packaging member at said jutting-out portion is provided at said jutting-out portion.

26. A printing plate packaging means according to claim 15, wherein display means which displays information regarding said packaging means main body and/or the photosensitive printing plates is provided at at least a portion of said packaging means main body.